

Title (en)
ENVIRONMENTAL MONITORING SYSTEM

Title (de)
SYSTEM ZUR ÜBERWACHUNG DER UMWELT

Title (fr)
SYSTÈME DE SURVEILLANCE D'ENVIRONNEMENT

Publication
EP 3774416 A4 20220420 (EN)

Application
EP 19785930 A 20190327

Priority
• US 201815948691 A 20180409
• US 2019024342 W 20190327

Abstract (en)
[origin: US2019309972A1] An fluid monitoring system can include a filter having an upstream face and a downstream face and defining a form factor, a sensor package arranged within the form factor of the filter to detect at least one quality factor of a surrounding medium, a transmitter electronically coupled to the sensor package and including an antenna for autonomous wireless transmission of the detected fluid quality information, and a power subsystem coupled to the sensor package and the transmitter to provide access to continuous electrical power thereto.

IPC 8 full level
B60H 3/06 (2006.01); **B01D 46/00** (2022.01); **F24F 11/32** (2018.01); **F24F 11/33** (2018.01); **F24F 11/39** (2018.01); **F24F 110/60** (2018.01); **F24F 110/62** (2018.01); **F24F 110/64** (2018.01); **F24F 110/66** (2018.01); **F24F 110/68** (2018.01); **F24F 110/70** (2018.01); **F24F 110/72** (2018.01); **F24F 110/74** (2018.01)

CPC (source: EP US)
B01D 29/13 (2013.01 - US); **B01D 35/1435** (2013.01 - US); **C02F 1/008** (2013.01 - US); **F24F 11/39** (2017.12 - EP US); **F24F 11/58** (2017.12 - US); **F24F 11/63** (2017.12 - US); **B01D 2201/56** (2013.01 - US); **C02F 2209/008** (2013.01 - US); **F24F 11/58** (2017.12 - EP); **F24F 2110/60** (2017.12 - EP US); **F24F 2110/62** (2017.12 - EP US); **F24F 2110/64** (2017.12 - EP US); **F24F 2110/66** (2017.12 - EP); **F24F 2110/68** (2017.12 - EP); **F24F 2110/70** (2017.12 - EP US); **F24F 2110/72** (2017.12 - EP); **F24F 2110/74** (2017.12 - EP); **Y02B 30/70** (2013.01 - EP)

Citation (search report)
• [XYI] US 9593861 B1 20170314 - BURNETT GREGG W [US]
• [XY] WO 2017053987 A1 20170330 - SPRIMO INC [US]
• [Y] WO 2017030869 A1 20170223 - 3M INNOVATIVE PROPERTIES CO [US]
• [Y] US 5251815 A 19931012 - FOYE DAVID M [US]
• [Y] US 2016116181 A1 20160428 - AULTMAN DON [US], et al
• See references of WO 2019199462A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 10704798 B2 20200707; **US 2019309972 A1 20191010**; EP 3774416 A1 20210217; EP 3774416 A4 20220420; US 11788754 B2 20231017; US 2020408429 A1 20201231; US 2024077223 A1 20240307; WO 2019199462 A1 20191017

DOCDB simple family (application)
US 201815948691 A 20180409; EP 19785930 A 20190327; US 2019024342 W 20190327; US 202016921342 A 20200706; US 202318466598 A 20230913